

CLAIMS

1. A base station apparatus comprising:

a transmission power controller that controls a transmission power of a packet;

5 a receiver that receives a channel condition report value transmitted from a communication terminal apparatus of a transmission destination of the packet, said downlink channel condition value indicating a downlink channel condition; and

10 a receiving quality estimator that estimates a receiving quality of the packet at the communication terminal apparatus based on the channel condition report value,

wherein the receiving quality estimator calculates
15 a request packet quality for achieving a target packet quality upon a retransmission based on an estimated receiving quality of the packet; and

wherein the transmission power controller sets the transmission power upon retransmission based on a
20 calculated request packet quality.

2. The base station apparatus according to claim 1, further comprising an offset calculator that calculates an offset from a difference in transmission power between
25 a packet transmission channel and a shared control channel,

wherein the receiving quality estimator takes into

account the offset in calculation of the request packet quality.

3. The base station apparatus according to claim 1,
5 wherein the receiving quality estimator estimates the receiving quality of the packet based on an average value of a plurality of channel condition report values received earlier.

10 4. The base station apparatus according to claim 1, wherein the receiving quality estimator predicts and estimates the receiving quality of the packet from a plurality of channel condition report values received earlier.

15 5. The base station apparatus according to claim 1, further comprising a coding priority determiner that, when a method is employed that switches a priority of a systematic bit and a parity bit in a turbo code between
20 times of initial transmission and retransmission, determines which of the systematic bit and the parity bit to be prioritized and transmitted based on the receiving quality of the packet estimated by the receiving quality estimator.

25 6. The base station apparatus according to claim 5, wherein the coding priority determiner retransmits the

parity bit with priority when the systematic bit is received in a desirable quality.

7. The base station apparatus according to claim 5,
5 wherein the coding priority determiner retransmits the systematic bit with priority when the systematic bit is not received at a desirable quality.

8. A transmission power control method comprising:
10 estimating a receiving quality of a packet based on a channel condition report value transmitted from an apparatus of a transmission destination of the packet, said downlink channel condition value indicating a downlink channel condition;
15 calculating a request packet quality for achieving a target packet quality upon retransmission based on an estimated receiving quality of the packet; and
setting a transmission power for retransmission of the packet based on the request packet quality.